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Amendment and Response Serial No.: 10/788,731

Confirmation No.: 6098 Filed: 27 February 2004

For: SELECTIVE MODULATION OF TLR-MEDIATED BIOLOGICAL ACTIVITY

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the aboveidentified application:

1. (Previously Presented) A method of identifying a compound that selectively modulates at least one TLR-mediated cellular activity, the method comprising:

providing an assay to detect modulation of a TLR7-mediated cellular activity and an assay to detect modulation of a TLR8-mediated cellular activity;

performing the assay to detect modulation of a TLR7-mediated cellular activity using a test compound and human cells that naturally express TLR7;

performing the assay to detect modulation of a TLR8-mediated cellular activity using the test compound and human cells that naturally express TLR8; and

identifying the test compound as a compound that selectively modulates at least one TLR-mediated cellular activity if the test compound modulates the TLR7-mediated cellular activity to a different extent than it modulates the TLR8-mediated cellular activity.

- 2. (Previously Presented) The method of claim 1 wherein the compound modulates a TLR7-mediated cellular activity and does not modulate a TLR8-mediated cellular activity.
- 3. (Previously Presented) The method of claim 1 wherein the compound modulates a TLR8-mediated cellular activity and does not modulate a TLR7-mediated cellular activity.
- 4-8. (Canceled)
- 9. (Currently Amended) A method of identifying a target compound having a TLR modulation profile that conforms to a target TLR modulation profile, the method comprising: selecting a target TLR modulation profile;

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determining the TLR modulation profile of a test compound by:

providing an assay to detect modulation of a first TLR-mediated cellular activity and an assay to detect modulation of a second TLR-mediated cellular activity, performing the assay to detect modulation of the first TLR-mediated cellular activity using the test compound,

performing the assay to detect modulation of the second TLR-mediated cellular activity using the test compound, and

determining the extent to which the test compound modulates each TLR-mediated cellular activity; and

identifying the test compound as a target compound if the TLR modulation profile of the test compound conforms to the target TLR modulation profile.

- 10. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR6-mediated cellular activity.
- 11. (Original) The method of claim 10 wherein at least one TLR modulation profile comprises modulation of TLR6-mediated cellular activity.
- 12. (Original) The method of claim 11 wherein at least one TLR modulation profile comprises substantially no modulation of TLR7-mediated cellular activity.
- 13. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR7-mediated cellular activity.
- 14. (Original) The method of claim 13 wherein at least one TLR modulation profile comprises modulation of TLR7-mediated cellular activity.

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- 15. (Original) The method of claim 14 wherein at least one TLR modulation profile comprises substantially no modulation of TLR6-mediated cellular activity.
- 16. (Original) The method of claim 14 wherein at least one TLR modulation profile comprises substantially no modulation of TLR8-mediated cellular activity.
- 17. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR8-mediated cellular activity.
- 18. (Original) The method of claim 17 wherein at least one TLR modulation profile comprises modulation of TLR8-mediated cellular activity.
- 19. (Original) The method of claim 18 wherein at least one TLR modulation profile comprises substantially no modulation of TLR7-mediated cellular activity.
- 20. (Original) The method of claim 9 wherein at least one TLR modulation profile comprises TLR9-mediated cellular activity.
- 21. (Original) The method of claim 20 wherein at least one TLR modulation profile comprises modulation of TLR9-mediated cellular activity.
- 22. (Original) The method of claim 9 wherein the target TLR modulation profile includes one or more TLR-mediated cellular activities that are not detectably modulated by a target compound.
- 23-24. (Canceled)

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25. (Previously Presented) A method of selectively modulating cells of the immune system, the method comprising:

identifying a first human immune system cell population that naturally expresses TLR7 and a second human immune system cell population that naturally expresses TLR8;

selecting a compound that modulates a TLR7-mediated cellular activity of the first cell population to a different extent than it modulates a TLR8-mediated cellular activity of the second cell population; and

contacting cells of the immune system with the selected compound in an amount effective to modulate a TLR-mediated cellular activity of at least one of the cell populations.

- 26. (Original) The method of claim 25 wherein the method further comprises determining the TLR expression profile of the first cell population and the TLR expression profile of the second cell population.
- 27. (Original) The method of claim 26 wherein the step of selecting a compound comprises comparing the TLR expression profile of the first cell population and the TLR expression profile of the second cell population with a TLR modulation profile of the compound.
- 28. (Original) The method of claim 25 wherein modulating cells of the immune system comprises detectably activating the cells or detectably inhibiting the cells.
- 29. (Original) The method of claim 25 wherein the compound modulates the first cell population and does not detectably modulate the second cell population.
- 30. (Original) The method of claim 25 wherein the compound modulates both cell populations.

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- 31. (Original) The method of claim 25 at least one cell population is modulated in vitro.
- 32. (Original) The method of claim 25 wherein at least one cell population is modulated in vivo.
- 33. (Original) The method of claim 25 wherein at least one immune system cell population comprises plasmacytoid dendritic cells.
- 34. (Previously Presented) The method of claim 25 wherein at least one immune system cell population comprises monocyte-derived dendritic cells.

35-55. (Canceled)

56. (Previously Presented) The method of claim 25 wherein the compound modulates the second cell population and does not detectably modulate the first cell population.